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- (74) Agent: **CABINET ORES**; 36, rue de St Pétersbourg,
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- (71) Applicant (for all designated States except US): **COM-
MISSARIAT A L'ENERGIE ATOMIQUE** [FR/FR];
31-33, rue de la Fédération, F-75015 Paris (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **RICHAUD, Pierre**
[FR/FR]; 14, rue des Ferrages, F-84120 La Bastidonne
(FR). **VERRET, Frédéric** [FR/FR]; Campagne Maurin,
Chemin du Thor, F-04100 Manosque (FR). **GRAVOT,
Antoine** [FR/FR]; 10, rue Mère de Dieu, F-13860 Pey-
rolles (FR). **AUROY, Pascaline** [FR/FR]; 377, rue Hoche,
F-84120 Pertuis (FR). **VAVASSEUR, Alain** [FR/FR]; 18,
allée du Montaignet, F-13090 Aix En Provence (FR).
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(54) Title: GENETICALLY MODIFIED PLANTS AND THEIR APPLICATIONS IN PHYTOREMEDIATION.

(57) Abstract: Genetically modified plants able to accumulate heavy metals in shoots and methods of removing and possibly re-
covering said heavy metals, using said genetically modified plants. Said genetically modified plants include more than one copy of
at least a sequence encoding a P_{1B}-type ATPase of the Zn²⁺/Co²⁺/Cd²⁺/Pb²⁺ subclass and that they overexpress said P_{1B}-type ATPase.

